

Amendments To The Claims:

1. (Currently Amended) A lubricious composition suitable for use on medical device comprising at least one polymerizable alkoxyated (meth)acrylate compound having at least two acrylate groups per molecule of the compound and a water solubility of about 15% or greater, said polymerizable alkoxyated (meth)acrylate is a member selected from the group consisting of alkoxyated trimethylol alkane tri(meth)acrylates, alkoxyated neopentyl glycol di(meth)acrylates, alkoxyated alkanediol di(meth)acrylates, alkoxyated pentaerythritol tetra(meth)acrylates, trimethylolpropane ethoxylate (1 EO/OH) methyl ether di(meth)acrylate, aromatic alkoxyated (meth) acrylates having a water solubility of about 15% or greater, and mixtures thereof, and at least one second component which provides lubricity when wet.
2. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxyated (meth)acrylate compound has a water solubility of about 50% or greater.
3. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxyated (meth)acrylate compound is a monomer.
4. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxyated (meth)acrylate compound has a molecular weight of about 1000 g/mole or less.
5. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxyated (meth)acrylate compound has at least three (meth)acrylate groups per molecule.
6. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxyated (meth)acrylate compound has about 1 to about 20 moles alkoxyate.
7. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxyated (meth)acrylate compound has about 2 to about 18 moles alkoxyate.
8. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable

alkoxylated (meth)acrylate compound has 3 to about 15 moles alkoxylate.

9. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxylated (meth)acrylate compound is a non-aromatic alkoxylated (meth)acrylate compound.

10. (Original) The lubricious composition of claim 1 wherein said at least one polymerizable alkoxylated (meth)acrylate compound is an alkoxylated trimethylol propane triacrylate.

11. (Original) The lubricious composition of claim 1 wherein said alkoxylated trimethylol propane triacrylate is an ethoxylated trimethylol propane triacrylate.

12. (Original) The lubricious composition of claim 1 further comprising at least one photoinitiator.

13. (Previously Presented) The lubricious composition of claim 12 wherein said at least one photoinitiator is a member selected from the group consisting of benzophenones, aromatic-aliphatic ketones, α -amino ketones, benzil ketals, derivatives thereof, and mixtures thereof.

14. (Withdrawn) The lubricious composition of claim 13 wherein said at least one photoinitiator is 2,2-dimethoxy-2-phenyl acetophenone.

15. (Original) The lubricious composition of claim 13 wherein said at least one photoinitiator is 2-methyl 1-[4-methylthio] phenyl] 2-morpholinopropan-1-one, 2-benzyl-2-(dimethylamine)-1-[4-morpholinyl]phenyl]-1-butanone or mixture thereof.

16. (Original) The lubricious composition of claim 1 wherein said at least one second component is hydrophilic.

17. (Previously Presented) The lubricious composition of claim 1 wherein said at least one second component is selected from the group consisting of polyalkylene glycols, alkoxy polyalkylene glycols, poly((meth)acrylic acids), polyvinylalcohols, poly(meth)acrylamides, polyurethanes, polyvinylsulfonic acids, poly(sodium styrenesulfonates), poly (sodium

vinylsulfonates), poly(3-hydroxybutyric acids), polyvinylpyrrolidones, polymers of hydroxyl-substituted lower alkyl (meth)acrylates, polyamides, polyethyleneimines, copolymers thereof, and mixtures thereof.

18. (Withdrawn) The composition of claim 17 wherein said at least one second component is a polyurethane.

19. (Withdrawn) The composition of claim 18 wherein said at least one second component is an aliphatic polyether polyurethane.

20. (Withdrawn) The composition of claim 19 wherein said aliphatic polyether polyurethane is capable of absorbing about 5 times to about 20 times its own weight in water.

21. (Original) The lubricious composition of claim 16 wherein said at least one second component is polyethylene oxide, polyvinylalcohol, polyvinylpyrrolidone, polyurethane, or mixtures thereof.

22. (Original) The lubricious composition of claim 1 wherein said at least one second component has a molecular weight of about 50,000 to about 1,500,000 g/mole.

23. (Original) The lubricious composition of claim 1 wherein said at least one second component has a weight-average molecular weight of about 75,000 to about 1,000,000 g/mole.

24. (Original) The lubricious composition of claim 1 further comprising at least one member selected from the group consisting of fillers, flow modifiers, antioxidants, coupling agents, adhesion promoters, surfactants, and mixtures thereof.

25. (Original) The lubricious composition of claim 24 further comprising at least one flow modifier which is an acrylic flow modifier.

26. (Original) The lubricious composition of claim 24 further comprising at least one coupling agent which is a silane.

27. (Original) The composition of claim 1 crosslinked by actinic radiation.

28. (Currently Amended) A lubricious composition that has been cured by actinic radiation, said lubricious composition comprising:

- a) at least one lubricious hydrophilic polymer; and
- b) at least one polymerizable alkoxyated (meth)acrylate having two or more acrylate groups wherein said at least one polymerizable alkoxyated (meth)acrylate has about 15 wt-% water solubility or greater; said polymerizable alkoxyated (meth)acrylate is a member selected from the group consisting of alkoxyated trimethylol alkane tri(meth)acrylates, alkoxyated neopentyl glycol di(meth)acrylates, alkoxyated alkanediol di(meth)acrylates, alkoxyated pentaerythritol tetra(meth)acrylates, trimethylolpropane ethoxylate (1 EO/OH) methyl ether di(meth)acrylate, aromatic alkoxyated (meth) acrylates,

wherein said composition is cured by actinic radiation.

29. (Previously Presented) The lubricious composition of claim 28 wherein said at least one polymerizable alkoxyated (meth)acrylate is non-aromatic.

30. (Previously Presented) The lubricious composition of claim 28 wherein said at least one polymerizable alkoxyated (meth)acrylate has greater than about 50 wt-% water solubility.

31. (Previously Presented) The lubricious composition of claim 28 wherein said at least one polymerizable alkoxyated (meth)acrylate has about 1 to about 20 moles of alkoxylation.

32. (Original) The lubricious composition of claim 31 wherein said alkoxylation is ethoxylation.

33. (Previously Presented) The lubricious composition of claim 28 wherein said at least one polymerizable alkoxyated (meth)acrylate is an ethoxylated trimethylol propane triacrylate.

34. (Original) The lubricious composition of claim 28 wherein said at least one lubricious polymer is a hydrogel.

35. (Original) The lubricious composition of claim 28 wherein said at least one lubricious polymer is selected from the group consisting of polyalkylene glycols, alkoxy polyalkylene glycols, polyalkylene oxides, poly((meth)acrylic acids), polyvinylalcohols, poly(meth)acrylamides, polyurethanes, polyvinylsulfonic acids, poly(sodium styrenesulfonates), poly (sodium vinylsulfonates), poly(3-hydroxybutyric acids), polyvinylpyrrolidones, polymers of hydroxyl-substituted lower alkyl (meth)acrylates, polyamides, polyethyleneimines, copolymers thereof, and mixtures thereof.

36. (Original) The lubricious composition of claim 28 wherein said composition is curable by ultraviolet radiation, said composition further comprising at one free radical photoinitiator.

37. (Currently Amended) The lubricious composition of claim 36 wherein said at least one photoinitiator is a benzophenone, aromatic-aliphatic ketones, ~~acrylated amine synergists~~, α -amino ketones, benzil ketals, derivatives thereof, and mixtures thereof.

38. (Withdrawn) The lubricious composition of claim 37 wherein said at least one photoinitiator is 2-dimethoxy-2-phenyl acetophenone.

39. (Original) The lubricious composition of claim 37 wherein said at least one photoinitiator is 2-methyl 1-[4-methylthio) phenyl] 2-morpholinopropan-1-one, 2-benzyl-2-(dimethylamine)-1-[4-morpholinyl)phenyl]-1-butanone or mixture thereof.

40. (Original) The lubricious composition of claim 28 further comprising at least one additive selected from the group consisting of flow modifiers, coupling agents, antioxidants, surfactants and mixtures thereof.

41. (Original) The lubricious composition of claim 28 wherein said composition is admixed in a solvent or cosolvent blend.

42. (Previously Presented) The lubricious composition of claim 28 disposed on the surface of a

medical device or on the surface of a component thereof, said composition is cured.

43. (Previously Presented) The lubricious composition of claim 42 wherein said medical device or component thereof is a catheter shaft, dilatation balloon, guide wire lumen, guide wire or a stent retaining sleeve.

44. (Withdrawn) A method of coating at least one surface of a medical device, said method comprises the steps of:

- a) applying a mixture to said at least one surface of said medical device, said mixture comprising at least one lubricious polymer and at least one polymerizable alkoxyated acrylate having at least two acrylate groups and having a water solubility of about 15 wt-% or greater; and
- b) exposing said coating to actinic radiation.

45. (Withdrawn) The method of claim 44 wherein said at least one polymerizable alkoxyated acrylate has a water solubility about 50 wt-% or greater.

46. (Withdrawn) The method of claim 44 wherein said actinic radiation is ultraviolet radiation or electron beam radiation.

47. (Withdrawn) The method of claim 46 wherein said mixture further comprising at least one free radical photoinitiator.

48. (Withdrawn) The method of claim 47 wherein said at least one photoinitiator is a benzophenone, aromatic-aliphatic ketones, acrylated amine synergists, amino substituted ketones, benzil ketals, derivatives thereof, and mixtures thereof.

49. (Withdrawn) The method of claim 48 wherein said at least one photoinitiator is 2-dimethoxy-2-phenyl acetophenone, 2-methyl 1-[4-methylthio) phenyl] 2-morpholinopropan-1-one or mixture thereof.

50. (Withdrawn) The method of claim 44 wherein said mixture is in a solvent or cosolvent blend.
51. (Withdrawn) The method of claim 44 wherein said at least one polymerizable alkoxyated acrylate has about 1 to about 20 moles alkoxyate.
52. (Withdrawn) The method of claim 44 wherein said at least one polymerizable alkoxyated acrylate has about 2 to about 18 moles alkoxyate.
53. (Withdrawn) The method of claim 44 wherein said at least one polymerizable alkoxyated acrylate has about 3 to about 15 moles alkoxyate.
54. (Withdrawn) The method of claim 44 wherein said at least one polymerizable alkoxyated acrylate is ethoxylated.
55. (Withdrawn) The method of claim 44 wherein said at least one polymerizable alkoxyated acrylate is non-aromatic.
56. (Withdrawn) The method of claim 44 wherein said at least one polymerizable alkoxyated acrylate is ethoxylated trimethylol propane triacrylate.
57. (Withdrawn) The method of claim 44 wherein said lubricious polymer is selected from the group consisting of polyalkylene glycols, alkoxy polyalkylene glycols, polyalkylene oxides, poly((meth)acrylic acids), polyvinylalcohols, poly(meth)acrylamides, polyurethanes, polyvinylsulfonic acids, poly(sodium styrenesulfonates), poly (sodium vinylsulfonates), poly(3-hydroxybutyric acids), polyvinylpyrrolidones, polymers of hydroxyl-substituted lower alkyl (meth)acrylates, polyamides, polyethyleneimines, copolymers thereof, and mixtures thereof.
58. (Withdrawn) The method of claim 44 wherein said lubricious composition further comprises at least one member selected from the group consisting of coupling agents, flow modifiers, antioxidants, surfactants and mixtures thereof.
59. (Withdrawn) A catheter assembly wherein at least a portion of said catheter assembly is

insertable in a body of a patient, the catheter assembly comprising a photopolymerizable lubricious composition disposed on at least a portion of the catheter assembly that is insertable in the body of the patient, the composition comprising:

- a) at least one alkoxyated (meth) compound; and
- b) at least one second component which provides lubricity; and.

60. (Withdrawn) The catheter assembly of claim 59 comprising at least one α -amino ketone photoinitiator that is 2-methyl 1-[4-methylthio) phenyl] 2-morpholinopropan-1-one, 2-benzyl-2-(dimethylamine)-1-[4-morpholinyl]phenyl]-1-butanone or a mixture thereof.

61. (Withdrawn) The catheter assembly of claim 59 comprising at least one α -amino ketone photoinitiator that is 2-methyl 1-[4-methylthio) phenyl] 2-morpholinopropan-1-one.

62. (Canceled)

63. (Withdrawn) The catheter assembly of claim 62 wherein said acrylate alkoxyated (meth)acrylate has at least two acrylate groups per molecule.

64. (Withdrawn) The catheter assembly of claim 62 wherein said alkoxyated (meth)acrylate is an alkoxyated trimethylol propane triacrylate.

65. (Withdrawn) The catheter assembly of claim 62 wherein said alkoxyate (meth)acrylate has greater than about 15 wt-% water solubility.

66. (Withdrawn) The catheter assembly of claim 59 wherein said at least one second component is a hydrophilic polymer.

67. (Withdrawn) The catheter assembly of claim 66 wherein said at least one hydrophilic polymer is selected from the group consisting of polyalkylene glycols, alkoxy polyalkylene glycols, poly((meth)acrylic acids), polyvinylalcohols, poly(meth)acrylamides, polyurethanes, polyvinylsulfonic acids, poly(sodium styrenesulfonates), poly (sodium vinylsulfonates), poly(3-

hydroxybutyric acids), polyvinylpyrrolidones, polymers of hydroxyl-substituted lower alkyl (meth)acrylates, polyamides, polyethyleneimines, copolymers thereof, and mixtures thereof.

68. (Withdrawn) The catheter assembly of claim 67 wherein said at least one second component is polyethylene oxide, polyvinylalcohol, polyvinylpyrrolidone, polyurethane, or mixtures thereof.

69. (Previously Presented) The catheter assembly of claim 68 wherein said at least one second component is polyethylene oxide.

70. (Withdrawn) The catheter assembly of claim 59, said composition further comprising at least one member selected from the group consisting of flow modifiers, antioxidants, coupling agents, surfactants, and mixtures thereof.

71. (Previously Presented) The lubricious composition of claim 13 further comprising an acrylated amine synergist.

72. (Previously Presented) The lubricious composition of claim 37 further comprising an acrylated amine synergist.

73. (Withdrawn) The catheter assembly of claim 59 comprising an expandable balloon member, said lubricious composition is disposed on at least a portion of said expandable balloon member.